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Bus connector for Coordinated Interconnect: laboratory measurement and finite element simulation

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Dept. of Electr. & Comput. Eng., North Carolina State Univ., Raleigh, NC;

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Abstract

Components in power electronic converters have been typically connected using a wiring laminated bus. Many design and manufacturing problems originate in the interconnect. The concept of Coordinated Interconnect has been introduced. Coordinated Interconnect makes the link between adjacent components. With a bus connector, the traditional solder is replaced with tabs fastened by a spring steel clip. This paper describes a prototype bus and its electromagnetic performance as found from both measurement and finite element analysis.

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